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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/522,594	03/10/2000	Sadayuki Mori	03180.0248	5795	
22852	7590 06/06/2002				
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW			EXAMI	EXAMINER	
			OWENS, DOUGLAS W		
WASHING	TON, DC 20005		ART UNIT	PAPER NUMBER	
			2811	<u> </u>	
			DATE MAILED: 06/06/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/522,594	MORI ET AL.				
Offic Action Summary	Examiner	Art Unit				
	Douglas W Owens	2811				
The MAILING DATE of this communication a	appears on the cover sheet with the	he correspondence address				
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta - Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a reply by reply within the statutory minimum of thirty (30) od will apply and will expire SIX (6) MONTHS tute, cause the application to become ABAND	pe timely filed days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on $\underline{0}$	6 March 2002 .					
2a)⊠ This action is FINAL . 2b)□	This action is non-final.					
3) Since this application is in condition for allo closed in accordance with the practice und Disposition of Claims						
4) Claim(s) 1,2 and 5-44 is/are pending in the	application.					
4a) Of the above claim(s) <u>24-29</u> is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>30, 41</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2,5-23,31-34,36-40,42 and 44</u> is/are rejected.						
7)⊠ Claim(s) <u>35 and 43</u> is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exami	ner.					
10)⊠ The drawing(s) filed on <u>10 March 2000</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☑ The proposed drawing correction filed on <u>06 March 2002</u> is: a)☑ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.						
	Examiner.					
Priority under 35 U.S.C. §§ 119 and 120		0() (1) (0				
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. § 11	9(a)-(d) or (t).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for dome	·					
a) The translation of the foreign language part 15) Acknowledgment is made of a claim for dome	provisional application has been	received.				
Attachment(s)	sale priority under 55 5.5.6. 33	LY GIROT IZ I.				
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)				

Application/Control Number: 09/522,594 Page 2

Art Unit: 2811

DETAILED ACTION

Drawings

- 1. The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on March 6, 2002 have been approved. A proper drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The correction to the drawings will not be held in abeyance.
- The Patent and Trademark Office no longer makes drawing changes. See 1017
 G.G. 4. It is applicant's responsibility to ensure that the drawings are corrected.
 Corrections must be made in accordance with the instructions below.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

Application/Control Number: 09/522,594 Page 3

Art Unit: 2811

Timing of Corrections

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.185(a). Failure to take corrective action within the set (or extended) period will result in **ABANDONMENT** of the application.

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first lower wire(s) disposed obliquely below the first upper wire(s), as required in claims 32 and 40 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claims 1, 2, 5-23, 31, 32, 34, 40 and 42 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 1 recites the limitation, "...formed on an extension of the first wire..." in line

7. The specification does not disclose an extension from the first wire.

Application/Control Number: 09/522,594

Art Unit: 2811

Claim 2 recites the limitation, "...formed on an extension of the third wire..." in lines 5 and 6. The specification does not disclose an extension from the third wire.

Claim 5 requires that the first and third plug be connected and the second and fourth plug be connected. The specification does not disclose this feature.

Claim 31 recites the limitation, "...formed on an extension of said first lower wire..." in line 2. The specification does not disclose an extension from the first lower wire.

Claims 32 and 40 require that the first lower wire be *obliquely* below the first upper wire (emphasis added). The specification does not disclose this feature.

Claim 34 recites the limitation, "...formed on an extension of said first upper wire..." in line 4. The specification does not disclose an extension from the first upper wire.

Claim 42 recites the limitation, "...formed on an extension of said first upper wire..." in line 8. The specification does not disclose an extension from the first upper wire.

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 36, 37, 38-40 and 44 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 36 recites the limitation, "...said first conductors alternated on two parallel lines..." in lines 6 and 7. The scope of the claim is vague because it is not known how

Art Unit: 2811

the first conductors are alternated on the two parallel lines. It is not known if the conductors alternate in orientation, position, shape or size, nor is it known in what way they alternate. Claims 38 and 44 recite similar limitations. Additionally, it is not known if term "line" is being used to indicate another conductive line such as a wire, or if it is a reference to the orientation or position of the conductors.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

9. Claim 33 is rejected under 35 U.S.C. 102(e) as being anticipated by US patent No. 6,162,686 to Huang et al.

Huang et al. teaches a semiconductor device comprising:

- a first insulating film (24, 30) formed on a substrate;
- a first conductor (26, 38B) on the substrate and extending through the first insulating film;

Art Unit: 2811

a first upper wire (58B) on first insulating film and first conductor; and a second insulating film (66) on the first upper wire, wherein the second insulating film includes a thin area that can be used for guiding a laser.

Allowable Subject Matter

- 10. Claims 30 and 41 are allowed.
- 11. Claims 35 and 43 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 12. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not teach a semiconductor device wherein the first conductor has a first portion made of a first material and a second portion made of material different from the first material (Figs. 11B, 11C, 12B, 12C).

Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Art Unit: 2811

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 703-308-6167. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 703-308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

DWO June 3, 2002

Steven Sole